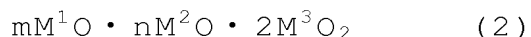


CLAIMS

1. A phosphor comprising at least one selected from the group consisting of Si and Ge, and Eu as an activator,
5 and ratio R of not less than 40 %, wherein the ratio R is calculated by entering value of **[a]** being peak amplitude derived from Eu^{2+} and value of **[b]** being peak amplitude derived from Eu^{3+} in primary differential pattern of an X-ray absorption near edge
10 structure spectrum into the following equation (1).

$$R(\%) = (a / (a + b)) \times 100 \quad (1)$$

2. The phosphor according to Claim 1, wherein the ratio R is not less than 60 %.
3. The phosphor according to Claim 2, wherein the ratio
15 R is not less than 80 %.
4. The phosphor according to Claim 1, wherein the phosphor further comprising at least one selected from the group consisting of Ca, Sr and Ba, and at least one selected from the group consisting of Mg
20 and Zn.
5. The phosphor according to Claim 1, wherein the phosphor has a compound represented by a formula (2) and Eu as the activator;



- 25 wherein, in the formula (2), M^1 is at least one selected

from the group consisting of Ca, Sr and Ba,
M² is at least one selected from the group consisting
of Mg and Zn,

5 M³ is at least one selected from the group consisting
of Si and Ge,

m is not less than 0.5 and not more than 3.5 and
n is not less than 0.5 and not more than 2.5.

6. A vacuum ultraviolet excited light-emitting device
comprising any of the phosphors according to Claim
10 1 to 5.

7. Use of any of the phosphors according to Claim 1 to
5 as a vacuum ultraviolet excited light-emitting
device.